INTERNATIONAL ARCH REPORT

Internations Application No. 522132
PCT 103/01033
PS 17/970 24 JAN 2005

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E21B7/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	US 1 870 540 A (LENNIE WELLS) 9 August 1932 (1932-08-09) page 2, line 71 - line 101; figures 1,5	1,19,21, 26	
A	US 4 253 531 A (BOROS LADISLAV J) 3 March 1981 (1981-03-03) the whole document	1,19,21,	
≥≅⊘ ⊘Furti	ner documents are listed in the "continuation of box"C." Y" '3 Patent family memi	bers are listed in annex: **	

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Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
16 October 2003	28/10/2003
Name and mailing address of the ISA	Authorized officer
European Palent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Ott, S

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International Application No
PCT 03/01033

	Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
Γ	US 1870	540 A	09-08-1932	NONE			
	US 4253	531 A	03-03-1981	NONE			